

[Thermal Module with Temporary Heat Storage]

Abstract of Disclosure

A thermal module with temporary heat storage. The thermal module includes a heat storage, a heat absorber, a heat dissipater, and a heat pipe for rapidly transferring heat from the heat absorber to the heat dissipater. The heat storage includes a phase change material and is in contact with the heat pipe. When heat quantities generated by the system are greater than a predefined reasonable thermal target, heat in excess of the thermal target is temporarily absorbed into the heat storage through the melting of the PCM. When the heat quantities generated by the system are again less than the thermal target, the PCM re-freezes, releasing the stored heat to be dissipated normally. *REMARKS* In this divisional application, the specification and drawings are carried forward from the application Ser. No. 10/064,464 filed 07/17/2002 without any amendment. No new matter is introduced.

Figures